

NEW REQUEST FOR INTERFERENCE PURSUANT TO 37 C.F.R. § 41.202
WITH U.S. PATENT 5,743,816
U.S. Application No. 08/898,853

Atty. Docket: Q45980

Appendix B

Support for Claims 13-19 of the Yamagishi Application in the Original Disclosure

Yamagishi Claims 13-19	Applying The Terms of the Claims to The Disclosure of the Yamagishi Application	Applying The Terms of the Claims to The Disclosure of the Parent Application 08/661,778
13. A solid golf ball comprising	Title “Multi-piece Solid Golf Ball” { <i>Page 1:10-13; page 2:23-24; page 5:7-23; and Figure 2</i> }	Title “Multi-piece Solid Golf Ball” { <i>Page 1:10-13; page 2:23-24; page 5:7-23; and Figure 2</i> }

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<p>a solid core having a three-layered structure composed of an inner layer, an intermediate layer formed outside said inner layer, and an outer layer formed outside said intermediate layer, and a cover for coating said solid core, wherein:</p>	<p>“...a multi-piece solid golf ball is defined according to the present invention as comprising a core having a structure consisting of at least two layers...” <i>{Page 5:7-9}</i></p> <p>“The ball generally designated at 10 includes a solid core 11 consisting of an inner sphere 12 and a layer 13 surrounding the inner sphere and a cover 14 around the core consisting of the inner and outer cover layers 15 and 16. The surrounding layer 13 may be a single layer or have a plurality of layers. In the former case, the golf ball is of the four layer structure. <i>{See, page 5:15-23, Figure 2}</i></p> <p>The recited “inner layer” corresponds to the inner sphere 12; the recited “intermediate layer” corresponds to the layer 13; the recited “outer layer” corresponds to the inner cover layer 15; the recited “cover” corresponds to the outer layer 16. Compare Figure 2 of the present application to Figure 1 of the ‘816 patent.</p>	<p>“...a multi-piece solid golf ball is defined according to the present invention as comprising a core having a structure consisting of at least two layers...” <i>{Page 5:7-9}</i></p> <p>“The ball generally designated at 10 includes a solid core 11 consisting of an inner sphere 12 and a layer 13 surrounding the inner sphere and a cover 14 around the core consisting of the inner and outer cover layers 15 and 16. The surrounding layer 13 may be a single layer or have a plurality of layers. In the former case, the golf ball is of the four layer structure. <i>{See, page 5:15-23, Figure 2}</i></p> <p>The recited “inner layer” corresponds to the inner sphere 12; the recited “intermediate layer” corresponds to the layer 13; the recited “outer layer” corresponds to the inner cover layer 15; the recited “cover” corresponds to the outer layer 16. Compare Figure 2 of the present application to Figure 1 of the ‘816 patent.</p>

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said inner layer is designed to have a Shore D hardness which is lower than that of said intermediate layer;	<p>The inner sphere 12 corresponds to the “inner layer”. The inner sphere 12 has a Shore D hardness of 20 to 55 degrees, especially 25-50. <i>{Page 6:30-33}</i></p> <p>The inner sphere 12 has a Shore D hardness lower than the Shore D hardness of the layer 13. <i>{See, Examples 1-7 in Table 1}</i></p>	<p>The inner sphere 12 corresponds to the “inner layer”. The inner sphere 12 has a Shore D hardness of 20 to 55 degrees, especially 25-50. <i>{Page 6:30-33}</i></p> <p>The inner sphere 12 has a Shore D hardness lower than the Shore D hardness of the layer 13. <i>{See, Examples 1-7 in Table 1}</i></p>
said intermediate layer is designed to have a Shore D hardness of 45 to 65; and	<p>The layer 13 corresponds to the “intermediate layer”. The layer 13 has a Shore D hardness of at least 45 degrees, especially at least 55 degrees (Shore D). <i>{Page 7:8-12}</i></p> <p>The layer 13 has a Shore D hardness of 65 in Examples 6 and 7. <i>{See Table 1}</i></p>	<p>The layer 13 corresponds to the “intermediate layer”. The layer 13 has a Shore D hardness of at least 45 degrees, especially at least 55 degrees (Shore D). <i>{Page 7:8-12}</i></p> <p>The layer 13 has a Shore D hardness of 65 in Examples 6 and 7. <i>{See Table 1}</i></p>

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said outer layer is designed to have a Shore D hardness which is lower than that of said intermediate layer.	The inner cover layer 15 corresponds to the “outer layer”. The inner cover layer 15 has a Shore D hardness of up to 53 degrees, preferably up to 50 degrees (Shore D). The inner cover layer 15 has a Shore D hardness lower than the Shore D hardness of the layer 13. <i>{See, Examples 1-7 in Table 1, p. 7:14-16}</i>	The inner cover layer 15 corresponds to the “outer layer”. The inner cover layer 15 has a Shore D hardness of up to 53 degrees, preferably up to 50 degrees (Shore D). The inner cover layer 15 has a Shore D hardness lower than the Shore D hardness of the layer 13. <i>{See, Examples 1-7 in Table 1, p. 7:14-16}</i>
14. The solid golf ball according to claim 1, wherein said inner layer has a Shore D hardness of 20 to 40.	The inner sphere 12 corresponds to the “inner layer” and has a Shore D hardness in the range of 20 to 55. <i>{Page 6:30-32}</i>	The inner sphere 12 corresponds to the “inner layer” and has a Shore D hardness in the range of 20 to 55. <i>{Page 6:30-32}</i>

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<p>15. The solid golf ball according to claim 1, wherein said inner layer has a diameter of 20.0 to 29.0 mm, said intermediate layer and said inner layer have a combined diameter of 35.0 to 39.5 mm, and said outer layer, said inner layer, and said intermediate layer have a combined diameter of 37.5 to 41.0 mm.</p>	<p>The inner sphere 12 has a diameter of 20 to 39 mm. <i>{Page 6:37 - Page 7:3; Table 1, Example 7}</i></p> <p>The combined diameter of inner sphere 13 and layer 13 is in the range of 35 to 41 mm., especially 36 to 40 mm. <i>{Page 7:20-22. See, Examples 1-7 in Table 1}</i></p> <p>The inner sphere 12, layer 13 and inner cove layer 15 have a combined diameter in the range of 37.5 to 41.0 mm. <i>{See, Examples 1-7 in Table 1; page 6:11-25; page 6:35 to page 7:2; page 7:20-24; and page 9:7-10}</i></p>	<p>The inner sphere 12 has a diameter of 20 to 39 mm. <i>{Page 6:37 - Page 7:3; Table 1, Example 7}</i></p> <p>The combined diameter of inner sphere 13 and layer 13 is in the range of 35 to 41 mm., especially 36 to 40 mm. <i>{Page 7:20-22. See, Examples 1-7 in Table 1}</i></p> <p>The inner sphere 12, layer 13 and inner cove layer 15 have a combined diameter in the range of 37.5 to 41.0 mm. <i>{See, Examples 1-7 in Table 1; page 6:11-25; page 6:35 to page 7:2; page 7:20-24; and page 9:7-10}</i></p>

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<p>16. The solid golf ball according to claim 1, wherein a weight distribution in said solid core is designed so that said inner layer has a large specific gravity, and said intermediate layer and said outer layer have specific gravities which are smaller than said specific gravity of said inner layer.</p>	<p>The limitations of claim 16 are inherent in layers having a dimension and composition as described in the application. <i>{See, e.g., Ex. 4 in Table 1 on p. 11}</i></p>	<p>The limitations of claim 16 are inherent in layers having a dimension and composition as described in the application. <i>{See, e.g., Ex. 4 in Table 1 on p. 11}</i></p>
<p>17. The solid golf ball according to claim 1, wherein said solid core is formed by using a rubber composition comprising a base material composed of natural and/or synthetic rubber.</p>	<p>The inner sphere 12 and layer 13 (core) are composed of rubber material based on polybutadiene. <i>{Page 7:3-7 and 26-28}</i></p>	<p>The inner sphere 12 and layer 13 (core) are composed of rubber material based on polybutadiene. <i>{Page 7:3-7 and 26-28}</i></p>
<p>18. The solid golf ball according to claim 1, wherein at least one layer of said solid core is formed by using a material comprising one selected from ionomer resins and thermoplastic resins.</p>	<p>The layer 13 may be made of an ionomer resin or thermoplastic resin. <i>{Page 10:3-13; Page 7:26-28}</i> Also, the inner cover layer 15 may be made of a thermoplastic resin such as an ionomer resin. <i>{Page 6:26-29}</i></p>	<p>The layer 13 may be made of an ionomer resin or thermoplastic resin. <i>{Page 10:3-13; Page 7:26-28}</i> Also, the inner cover layer 15 may be made of a thermoplastic resin such as an ionomer resin. <i>{Page 6:26-29}</i></p>

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19. The solid golf ball according to claim 1, wherein said cover is formed by using an ionomer resin or a material containing it.	The outer cover layer 16 corresponds to the recited "cover". The outer cover layer 16 is formed of ionomer resin. <i>{Page 6:26-29}</i>	The outer cover layer 16 corresponds to the recited "cover". The outer cover layer 16 is formed of ionomer resin. <i>{Page 6:26-29}</i>